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(54) Title: RECOMBINANT EXPRESSION VECTORS FOR FUNCTIONAL $Na_v1.9$ SODIUM CHANNELS

(57) Abstract: The present invention is drawn to the stable cloning and expression of $Na_v1.9$ sodium channel at the mRNA and protein levels, production of sodium channel currents characteristic of native currents in dorsal root ganglion neurons and to cell lines transiently or stably expressing recombinant $Na_v1.9$ sodium channel.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 5/10, 15/63; G01N 33/53

US CL : 435/7.2, 320.1, 325

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.2, 320.1, 325

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 771 103 A1 (DIETRICH et al.) 19 November 1998 (19.11.1998), see pages 17-18, 21-24, and 30-33.	1-33
X	WO 99/38889 A2 (YALE UNIVERSITY) 05 August 1999 (05.08.1999), see pages 10-22.	1-33

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Further documents are listed in the continuation of Box C.

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See patent family annex.

* Special categories of cited documents:

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"T"

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"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:
BRS, GENESEQ, PIR, SWISSPROT, SPTREMBL

search terms: sodium channel, Nav1.9